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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/680,662		10/07/2003	Ravi Kuchibhotla	CS23283RL 5428		
20280	7590	02/28/2006		EXAMINER		
MOTOROI 600 NORTH		JWAV 15	EL HADY, NABIL M			
ROOM AS4		1WA1 43		ART UNIT	PAPER NUMBER	
LIBERTYV	ILLE, IL	60048-5343		2152		

DATE MAILED: 02/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
	0554 (10	10/680,662	KUCHIBHOTLA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Nabil M. El-Hady	2152					
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with the	correspondence address					
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS fruite, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).					
Status								
1) 又	Responsive to communication(s) filed on <u>07</u>	October 2003.						
·	· · · · · · · · · · · · · · · · · · ·	is action is non-final.						
3)	,—		prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.					
Disposit	ion of Claims							
4)🖂	Claim(s) 1-39 is/are pending in the applicatio	n.						
	4a) Of the above claim(s) is/are withdra							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-39</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and	or election requirement.						
Applicati	on Papers							
9)[The specification is objected to by the Examir	ner.						
10)	The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by the	Examiner.					
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).					
11)[The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreig ☑ All b)☑ Some * c)⊡ None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).					
	1. Certified copies of the priority documer	nts have been received.						
	2. Certified copies of the priority documer							
	3. Copies of the certified copies of the price.		ved in this National Stage					
	application from the International Burea							
* S	see the attached detailed Office action for a lis	t of the certified copies not receive	/ed.					
Attachment	` '	_						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail						
3) 🛛 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date <u>10/7/2003</u> .		Patent Application (PTO-152)					

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1. Claims 1-39 are pending in this application.

2. The disclosure is objected to because of the following informalities: Cross-references to related applications on page 1 of the specification need to be updated. Appropriate correction is required.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-39 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Mildh et al. (US 2002/0193139), hereinafter "Mildh".
- 6. As to claim 1, Mildh discloses a method in a communication device, comprising transmitting a signaling connection establishment message on a radio connection, the signaling connection establishment message including a registration request message; receiving a

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registration accept message on the radio connection ([0033]); and transmitting an uplink signaling message on the radio connection, the uplink signaling message including a core network operator identifier [0008] and [0033]).

- 7. As to claims 9, 12, 15, the claims are rejected for the same reasons as claim 1 above. In addition, Mildh discloses receiving a system information broadcast message ([0016]); requesting a radio connection; and receiving a grant of a radio connection ([0033]).
- 8. As to claim 24, the claim is rejected for the same reasons as claims 1, 9, 12, and 15 above, In addition, Mildh discloses a mobile communication device comprising a transceiver; a controller coupled to the transceiver, the controller configured to control the operations of the mobile communication device ([0035]); and a signaling message module coupled to the controller, the signaling message module configured to transmit a signaling connection establishment message on a radio connection, the signaling connection establishment message including a registration request message, receive a registration accept message on the radio connection ([0033]), and transmit an uplink signaling message on the radio connection, the uplink signaling message including a core network operator identifier ([0008] and [0033]).
- 9. As to claim 27, the claim is rejected for the same reasons as claims 1, 9, 12, and 15 above. In addition, Mildh discloses selecting a core network from a plurality of core networks to process the registration message; and sending a registration accept message ([0009]).
- 10. As to claim 31, the claim is rejected for the same reasons as claims 1, 9, 12, 15 above.

11. As to claim 33, the claim is rejected for the same reasons as claims 1, 9, 12, 15 above.

- 12. As to claims 2, 10, 16, and 34, Mildh discloses the uplink signaling message comprises a non-access stratum signaling message ([0015]).
- 13. As to claims 3, 4, 17, 18, 25, 30, 32, 35, and 37,Mildh discloses the uplink signaling message includes a domain identity, the domain identity comprises at least one of a packet switched domain indicator and a circuit switched domain indicator ([0004] and [0008]; and MSC and SGSN in Fig. 1).
- 14. As to claims 5, 11, 19, 26, and 37, Mildh discloses the signaling connection establishment message comprises an initial core network signaling message ([0036]).
- 15. As to claims 6, 7, 20, 21, 38 and 39, Mildh discloses the registration request message includes a desired core network operator identifier ([0035]), or includes an assigned core network operator identifier ([0032] [0033]).
- 16. As to claims 8, and 22, Mildh discloses the core network operator identifier comprises a public land mobile network identity including a mobile country code and a mobile network code ([0008]).
- 17. As to claim 14, Mildh does not explicitly disclose sending a registration denial message, the registration denial message including a forbidden core network operator identifier. However, sending a registration denial message for different reasons is well known in mobility processing

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to one skilled in the art at the time of the invention, see, for example, Kim, US 6,463,259, Fig. 6).

- 18. As to claim 23, Mildh discloses forwarding the non-access stratum signaling message to a first core network operator when the non-access stratum signaling message is a circuit switched message; and forwarding the forwarding the non-access stratum signaling message to a second core network operator when the non-access stratum signaling message is a packet switched message ([0004], [0008], [0009]).
- 19. As to claims 28 and 29, Mildh discloses selecting a core network from a plurality of core networks in a random manner or in a round robin manner ([0038] and [0039]).
- 20. Claims 1-39 are further rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kauranen et al. (US 2004/0162077), hereinafter "Kauranen".
- 21. As to claim 1, Kauranen discloses a method in a communication device, comprising transmitting a signaling connection establishment message on a radio connection, the signaling connection establishment message including a registration request message; receiving a registration accept message on the radio connection; and transmitting an uplink signaling message on the radio connection, the uplink signaling message including a core network operator identifier ([0017]).

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22. As to claims 9, 12, 15, the claims are rejected for the same reasons as claim 1 above. In addition, Kauranen discloses receiving a system information broadcast message requesting a radio connection; and receiving a grant of a radio connection (inherent in radio access communication network, and [0042]).

- 23. As to claim 24, the claim is rejected for the same reasons as claims 1, 9, 12, and 15 above, In addition, Kauranen discloses a mobile communication device comprising a transceiver; a controller coupled to the transceiver, the controller configured to control the operations of the mobile communication device ([0036]); and a signaling message module coupled to the controller, the signaling message module configured to transmit a signaling connection establishment message on a radio connection, the signaling connection establishment message including a registration request message, receive a registration accept message on the radio connection ([0036]), and transmit an uplink signaling message on the radio connection, the uplink signaling message including a core network operator identifier ([0017]).
- 24. As to claim 27, the claim is rejected for the same reasons as claims 1, 9, 12, and 15 above. In addition, Kauranen discloses selecting a core network from a plurality of core networks to process the registration message; and sending a registration accept message ([0019]).
- 25. As to claim 31, the claim is rejected for the same reasons as claims 1, 9, 12, 15 above.
- 26. As to claim 33, the claim is rejected for the same reasons as claims 1, 9, 12, 15 above.

27. As to claims 2, 10, 16, and 34, Kauranen discloses the uplink signaling message comprises a non-access stratum signaling message ([0013], [0042]).

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- 28. As to claims 3, 4, 17, 18, 25, 30, 32, 35, and 37, Kauranen discloses the uplink signaling message includes a domain identity, the domain identity comprises at least one of a packet switched domain indicator and a circuit switched domain indicator ([0037])
- 29. As to claims 5, 11, 19, 26, and 37, Kauranen discloses the signaling connection establishment message comprises an initial core network signaling message ([0012]).
- 30. As to claims 6, 7, 20, 21, 38 and 39, kauranen discloses the registration request message includes a desired core network operator identifier, or includes an assigned core network operator identifier ([0018]).
- 31. As to claims 8, and 22, kauranen does not explicitly disclose the core network operator identifier comprises a public land mobile network identity including a mobile country code and a mobile network code. However, it would have been obvious to one skilled in the art that identifying a core network would include identifying a mobile country code and a mobile network code.
- 32. As to claim 14, Kauranen discloses sending a registration denial message, the registration denial message including a forbidden core network operator identifier ([0012], [0016]).

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33. As to claim 23, kauranen discloses forwarding the non-access stratum signaling message to a first core network operator when the non-access stratum signaling message is a circuit switched message; and forwarding the forwarding the non-access stratum signaling message to a second core network operator when the non-access stratum signaling message is a packet switched message ([0037]).

- 34. As to claims 28 and 29, Kauranen discloses selecting a core network from a plurality of core networks in a random manner or in a round robin manner ([0017], [0053])
- 35. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kim (US 6,463,259); Anckar et al. (US 2004/0105429); Rajkotia et al. (US 2005/0070281); and Ratzel (US 6,873,615).

36. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nabil M. El-Hady whose telephone number is (571) 272-3963. The examiner can normally be reached on 9:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 16, 2006

Nabil El-Hady, Ph.D., M.B.A. Primary Patent Examiner Page 9

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